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KADEYKIN, V.A., dots.; SOKOLOV, V.D., dots.; DRUZHININ, A.S., kand. ist. nauk; SUSLIKOV, A.A., st. prep.	
[Reports and papers of the Scientific Conference on the Subject "Expanding socialist competition in the coal industry of the Kuznetsk Basin"] Doklady i soobshcheniia Nauchnoi konferentsii na temu "Razvitie sotsialisticheskogo sorevnovaniia v ugol'noi promyshlennosti Kuzbassa." Kemerovo, Kemerovskii gornyi in-t, 1962. 113 p. (MIRA 17:7)	
l. Nauchnaya konferentsiya na temu "Razvitiye sotsialistiche- skogo sorevnovaniya v ugol'noy promyshlennosti Kuzbassa.	

	LITVINENKO, G.Kh.; Mechanice sections.	tion and automatization of operations in coke-oven	
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7. How to repair the cylinder pump of	a milking machine, MTS 13 No. 5, 1953.	
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Demaktyr, A.F. Results of Studies Conducted Detween 1972-1976 in Selecting Bethods for Processing Unmrakiye Symmites for the Achinakiy Alemines Oxide Flant The Conduction of	and P.S. Im "shirty. Sirtering Uncertainty Deposits Symitally menther the Interior Structure Themselve Front Symital Symites with Limetense in the Presence of a Reducing April 194 Octabilet, D.M., I.S. Effor and F.A. Eryntine. Experimental Studies of Granulation in September Charges and Their Sintering in the Toolling Layer."	L.F. Berenho, and A.M. Kanley. Send-in-hastrial Testing Addity of the Unburskips Sepheline Socks		Petrow, F.S. Underskips Sephalize Ores 93 Tempore, F.S. The Distriction of Sephalize Specifies in the Interdskips Objects for Sephalize September 101	Technical and Accounts Privaciative for the Willeston of Enymetry Strates to the Production of Minathum and Te Alloys Based on the Emergy to be Supplied by the Flamoed State Englocalectric Stations on the Textury FART II. MERSKAINS GRES AND TREET VEHILLESSES.	World of V.M. Electrothermal Method of Producing Aluminum and Its Alloys 72	I ment to	Olegations, 8.V., and Ye. I. Charmov. Exploads and all Properties, Composition, and Dessing Possibilities of the Billiamite Ores of the Contribution Deposits	Despition, Th. B. Inselts of Geophysical Prospecting by the YEZ (Vertical Electrical Sommeting) Northod at the Kymintinakiya Sillinemite Schiet by Deposits	Subson, A.R., N.To. Mitformer, and V.V. Barmgillyn. Lynthinality 39 Superito of Butile-bearing Hillmenite Schiefe	the third conflicated conference on "he treation of a Light Notate the third conflicated conference on "he treation of a Light Notate Industry is Eastern Siberia Based on Lead Ores" organized by the Laboratory of Electromatalizary of the Eastern Siberia Breach From or the Massist in Octobery of the power generation combines and the fast developing light metals industry of the power generation combines and the fast developing light metals industry of Eastern Siberia. The reports indicate that large shadines and the magnetize considers. The reports indicate that Large shadines are the large and the magnetize considers. The reports indicate the chargest sources of soul the largest consideration in the development of the Light metals industry in Eastern Election, early probabiles spraides, bundless, supposite orces, etc.	PRESENT: This issue of the Eartern Sthurius Brunch Transactions is of interest to structural, exploration and mixing goologists, mineralogists, and artalizerists in the light metal inheration.	Ritherial Board: N.S. Alabesyev, To. P. Beschiterys, V.S. Render, A.F. id., Doctor of dealogical and Mineral Sciences, and Ye. I. Danasov (News, Ed.) Conducted of Sciences Sciences; M. of Publishing Squer: V.L. Diapov; Tech. M.: P.S. Thebrine.	Spr twoppe resurry lagith metallor Yostochney Sibiri, tom. 2[Light Hestal Resources of Research Siberia, Vol. 2] Hoscow, 1998, 268 p. (Series; Te: Yorky, Vyp. U) 1,500 copies pristed.	(5) FLOR I BOOK EXPLOITMENT SOF/2154 Annihulya manik CHOM. Vostoodno-Sibirskiy filial	

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Translation	SOV/137-59-3-5202 from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 38 (USSR)
AUTHORS:	Gerasimov, A. G Suslikov, G. F., Tatsiyenko, P. A.
TITLE:	On the Utilization of Iron Ores of the Nizhne-Angarskiy Ore Body (K voprosu ob ispol zovanii zheleznykh rud Nizhne-Angarskogo mestorozhdeniya)
PERIODICA	L: Tekn. ekon. byul. Sovnarkhoz Krasnoyarskogo ekon. adm. r-na, 1958, Nr 2, pp 12-15
ABSTRACT	The final results of concentration of ore by the gravitation-flotation and magnetic-roasting methods under laboratory conditions are adduced. The calculations performed serve to substantiate the proposed immediate exploitation of the Nizhne-Angarskiy iron-ore body. M. M.
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		SOV-127-58-9	9-10/20
	AUTHORS:	Gerasimov, A.G., Suslikov, G.F., Tatsiyenko, P.A. and Medvedkov, V.I.	
	TITLE:	New Data on the Concentration of Iron Ores of the Nizhn Angara Deposits Novyye dannyye po obogashcheniyu zhele rud Nizhne-Angarskogo mestorozhdeniya)	yaya znykh
	PERIODICAL:	Gornyy zhurnal, 1958, Nr 9, pp 56-62 (USSR)	
-	ABSTRACT:	Data on the concentration processes of the Nizhnyaya An iron ore deposits have been collected and studied durin last 1C years by the Instituty Mekhanobr, Uralmekhanobr birskiy metallurgicheskiy institut (The Mekhanobr, Ural Institutes and the Siberian Metallurgical Institute) ar result two rational methods of concentration have been gravity-flotation and magnetic-roasting methods. Compagnavity-flotation and magnetic-roasting methods.	i Si- mekhanobr nd as a proposed: arative
	0	gravity-flotation and magnetic-Foasting method results are shown in table 1. After technical and econcalculations, the Mekhanobr, represented by N.F. Titkor Kachan, G.I. Yudenich, Z.S. Bogdanova, V.F. Savel'yev, Ruchkin and D.I. Frantsuzov, recommended the gravity-fimethod. Although these findings were confirmed by lab tests conducted in the Krasnoyarsk Plant Sibelektrosta v.D. Kosul'nikov, V.S. Tomilin, A.M. Komlev, A.D. Koml	v, I.N. Engineer lotation oratory l'by
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SOV-127-58-9-10/20 New Data on the Concentration of Iron Ores of the Nizhnyaya Angara Deposits M.G. Kurochkin, N.S. Kosul nikova, A.S. Kozhevnikov, S.M. Luk'yanov, V.B. Lutsiyan, V.V. Makarov, D.Ye. Necheporenko, and G.L. Suslikdva in 1957-58, they also found the possibility of obtaining much better results of the concentration by the magnetic - roasting method. According to their findings, the optimum degree of reduction of rossted ore is in the 120-150 % range, as compared with 83-102 % findings of the Mekhanobr (Fig. 1). Research on various reducers showed that the best results of reducing were obtained when coal was used as fuel. Its use allowed the necessary degree of reduction to be obtained at a temperature of 650-700°, which must have been much higher when gas was used as a fuel. As the Krasnoyarsk region has huge reserves of brown coal, it was decided to use only the magnetic-roasting method. Brown coal consumption amounted to 8.1 % of the processed ore on the average. The low cost of brown coal makes this method highly profitable. The crushed ore of class minus 12 mm was subjected to the magnetic-roasting process; after that it was divided into two classes of plus 2 mm and minus 2 mm. The ore of class plus 2 mm was then subjected to the dry magnetic separation and the obtained concentration, together with ore of class minus 2 mm, Card 2/3

SOV-127-58-9-10/20 New Data on the Concentration of Iron Ores of the Nizhnyaya Angara Deposits was again subjected to wet magnetic separation. Further concentration operations were continued, according to two schemes elaborated by the Mekhanobr Institute (Fig. 2) and the Sibelektrostal Plant (Fig. 3). Best results were obtained with ores reduced by 120-150 % (Table 3). After testing the obtained concentrates with various iron ores of the Nizhnyaya Angara deposits, the Sibelektrostal Plant proposed a general method of concentration for all ores of the region. The cost of cast iron obtained from the concentrates (Table 7) of ores of the Nighnyaya Angara deposits is, after the Magnitogorsk cast iron, the lowest in the Union. There is 1 graph, 7 tables and 5 schemes. Krasnoyarskiy zavod Sibelektrostal (The Krasnoyarsk Sibelektro-ASSOCIATION: stal Plant); Krasnoyarskoye geologicheskoye upravleniye (The Krasnoyarsk Geological Administration) 1. Iron ores--Processing Card 3/3

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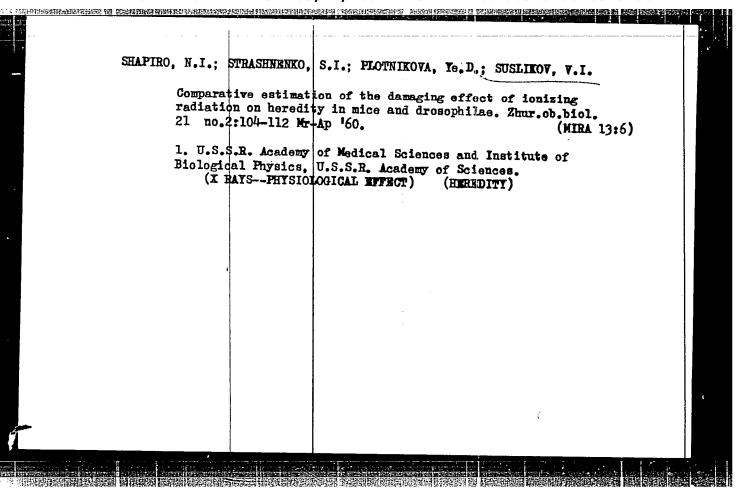
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	SHAPIRO,	N.I.; NEN	AROKOVA, I.I	.; SUSLIKOV,	V.I.	nes consenses estretes but s		
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AUTHORS:	and Suslikov, V.	Plotnikova, Ye. D., Strashnenko, S. I.
TITLE:	of mammals	tic radiosensitivity in different species
SOURCE:	AN SSSR. Moscow,	enetika; sbornik rabot. Otd. biol. nauk Izd-vo AN SSSR, 1962, 63-78
nant leth in 2 1/2 268, 402 those in and 750 r of their	als taken as the -4 month-old mal and 670 r, those 5 - 8 month-old of the mice and recown age, being keightered on the 1	the rate of induced mutations, with dominations of genetic changes, the gonads e mice were irradiated with x rays at 134, in rats at the same dose and 804 r, and chinchilla rabbits at 150, 300, 450, 600 at were subsequently mated with females pt together for 3 days, and the females 1 - 16th day of pregnancy. After mating, aughtered on the 20th day of pregnancy. ers of yellow bodies, implantation sites

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from crosses killing of the spermator of developmer cies studied bits and lowedominant leth	in the days ne embryos was zoids of the in nt of dominant showed genetic est in mice. I hals induced in	following irradiation of the males, the due to dominant lethals developed in radiated animals. The data on the rate lethals in the spermatozoids of the speradiosensitivity to be highest in rabuses established that in most cases the rabbits killed the embryos before implemental than the rate and rate that it is most cases and rate there are 4 figures and 5 tables.	X
ASSOCIATION:	Akademiya me	litsinskikh nauk SSSR (Academy of Medical R) and Institut biologicheskoy fiziki AN (Institute of Biological Physics, AS	
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AUTHORS: Shapiro, N. I., Strashnenko, S. I., Plotnikova, Ye. D.

and Suslikov, V. I

TITLE: A comparative assessment of the injurious effect of ioniz-

ing radiation on heredity in mouse and Drosophila

SOURCE: Radiatsionnaya genetika; sbornik rabot. Otd. biol. nauk

AN SSSR. Moscow, Izd-vo AN SSSR, 1962, 79-90

TEXT: The rate of the formation of dominant lethals was used as an indicator of the effect of radiation. Gonads in 2 1/2 - 4 monthold male mice were irradiated with x rays at 134, 268, 402 and 670 r, followed by mating with 2 females for 3 days. On the 14-16th day of pregnancy these were opened and the number of yellow bodies, implantation sites and emoryos assessed. Embryos killed both before and after implantation were determined, due to dominant lethals in the spermatozoids or the irradiated males. Similar data for maximum and minimum radiosens tivity in different lines of Drosophila melanogaster were used from previous studies by N. I. Shapiro et

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A comparative assessment ...

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al. (bokl. AN SSSR, 1947, 5c, no. 8, 1785-1736). Comparison of the rates of the formation of wolinant lethals in mice and D. melanomaster by 3 methods which are described showed that: 1) mice were an average of 5 - 7 times; 2) an average of 6 - 8 times; and 3) an average of 6 - 9 times more radioactive. It is therefore concluded that mice are 5 - 9 more radiosensitive than D. melanogaster. The rate of the formation of dominant lethals in both subjects was proportional to the total corrombsome measurements, that in mice being 9 times higher. There are 2 ligures and 5 tables.

Association: Amagaiya meditsinskikh nauk SSSR (Academy of Medical Sciences USSR) and Institut biologicheskoy fiziki AN SSSR, moskva (Institute of biological Physics AS USSR, moskva (Institute of biological Physics AS USSR, moscov)

5/020/62/146/004/015/015 B144/B186 Sondak, V. A., Gradheva, Ye. P., Gladyshev, B. N., AUTHORS: Suslikov, V. I. Protective effect of phytolipopolysaccharides and BC -2 TITLE: (VB-2) under the action of radiation Akademiya nauk SSSR. Doklady, v. 146, no. 4, 1962, 925-928 PERIODICAL: TEXT: The effect of a nonfibrinolytic phytolipopolysaccharide (PLP) from tea leaves was studied on white rats irradiated with a total dose of 700 r (Co⁶⁰). The PLP was administered either alone or combined with the polyvinyloutyl ester preparation VB-2 (m.w.6000; n_D 1.4600) subcutaneously by 4 injections of 100-50 γ , 96, 72, 48, and 24 hrs before irradiation. VB-2 was administered for the first time 24 hrs after . irradiation and then orally every day during the entire observation period of 30 days. The effect of the two preparations was examined by determining hemoglobin and by enythrocyte, leukocyte, differential blood count, reticulocyte and thrombodyte counts. The results were statistically evaluated and compared with the values obtained from controls which Card 1/2

5/020/62/146/004/015/015 Protective effect of had only been irradiated. For the PLP animals the death rate of the controls of 62.0 ± 6.86 decreased to 26.0 ± 9.15 , and for the PLP + VB-2 animals to 23.0 + 11.63. Detailed blood examinations showed that, at all stages, the hemoglobin content and the erythrocyte, reticulocyte, and thrombocyte counts were higher than those of the controls With combined treatment the protective effect was higher than with administration of FLP only. The white blood count was not influenced essentially. Unlike the bacterial lipopolysaccharides, PLP therefore is suitable as a radiation blocker. There are 2 figures and 3 tables. ASSOCIATION: Institut biologicheskoy fiziki Akademii nauk SSSR (Institute of Biological Physics of the Academy of Sciences USSR) Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the cademy of Sciences USSR) April 13, 1962, by A. I. Oparin, Academician PRESENTED: April 12, 1962 SUBMITTED: Card 2/2

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	Characteristics of charges in the effectiveness of some protective substances in dase of different radiation doses. Radioblologica 3 no.28347-255 163 (MIRA 17:1)		
	l. Institut biologicheskoy fiziki AN SSSR, Moskva.		
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Pb-4 L 20271-65 AMD 8/0299/64/000/014/NO24/MO24 ACCESSTON NR: AR4045858 SOURCE: Ref. zh. Biologiya. Svddnywy tom, Abs. 14M157 Lapchinskiy, A. G.; Medvedeva, G. V.; Gadalina, 1. D.; AUTHOR: Suslikov, V. I.; Eyngorn, A. G. TITLE: Skin and mammary gland homoplasty with parabiosis of donor an locidient in rats CITED SCURCE: Sb. 3 Vses. konferentsiya po peresadke tkaney i organov, 1963. Yerevan, 1963, 365-367 TOPIC TAGS: skin, mammary gland, homoplasty, parabiosis, rat, hyperplasia, transplantation T A.SLATION: Parabiosis in young rats leads to the development of torance between partners according to date of Lapchinskiy and Savindt. In some of the experiments nonrelated rats taken from different vivariums were joined in parabiosis by forming a skin or skin-muscle bridge between the partners. A flap from the back of one of the rate served as a transplant on the partner's atomach, and a Card 1/2

近天过渡时,所经,其代过渡市西南部市社会的全国的主任政府,在共和国的东西中共和国的中共和国的国际的方式和共和国的政府中,在中国的政府和共和国的政 L 20271-65 ACCESSION NR: AR4045868 flap from the latter's stomach served as a transplant on the back of the other rat. The difficulty of forming parabiosis in adult rats (because they constantly try to separate themselves from one another) and the seriousness of the operation led to a high percentage of postoperative deaths. Many rats died on the 14th to 15th days. Hyperplasia of the spleen and lymph nodes was found in the dead animals. However, the reason for sloughing off of transplant and death of animal could not always be found: perhaps it could be incompatibility of tissues or infection. Only 7 pairs of rats lived more than 20 days in parabiosis. In some of these a gradual crowding out of the transplant by the recipient's own tissues was found. Maximum life expectancy of rats in parabiosis is 6 mos. In one case when one partner died, the homotransplant on the back of the other partner remained intact. This transplant contained a mammary gland which 7 mos after transplantation secreted a small quantity of milk. SUB CODE: LS ENCL: 00 Cord 2/2

L 12931-63 EWT(1)/EWT(m)/BDS ASD/AFFTC AR/K ACCESSION NR: \$/0205/63/003/004/0587/0594 AP300B937 Sondak, V. A.; Gracheva, Ye. P.; Glady*shev, B. N.; Suslikov, V. I. AUTHOR: TITLE: Effect of phytolipopolysaccharides and preparation VB-2 on the hemogenesis of irradiated animals SOURCE: Radiobiologiya, v. 3, no. 4, 1963, 587-594 TOPIC TACS: radiation sickness, antiradiation preparation, polysaccharide, phytolipopolysaccharide, VB-2, hemogenesis, vinylbutyl ether polymer ABSTRACT: Lipopolystccharides from the leaves of Vitis vinifera and Thea sinensis have been tested on white male rats for their antirediation qualities. The phytolipopolysaccharides used did not have the ability to stimulate fibrinolysis. To protect the intestinal mucosal from radiation damage, a VB-2 preparation (polymer of vinylbutyl ether) was applied. An M-2 computer was employed to tabulate statistical results. It was concluded that 1) phytolipopolysaccharides applied before irradiation possess definite prophylactic properties and when used in conjunction with a VB-2 preparation exert some protective function after irradiation; 2) a positive influence from these preparations was also manifested in the Card 1/2

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SOURCE: Konferentsiy kosmicheskoy meditsir Moscow, 1966, 356-357	ly. (Problems of space	heskoy meditsiny, 1966. Pr e medicine); materialy konf	oblemy erentsii, !'	
TOPIC TAGS: radiation space medicine	n protection, cosmic	radiation biologic effect,	pharmacology,	
ABSTRACT: The ineffectiveness	is of radioprotective	substances during either c	hnonia	
or fractionated irradia	ition of animals with	doses of marginal lethality	is	
still unexplained. Thi	s phenomenon could b	e connected with the decre	eased : .	
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important radioprotectors, diethylstilbestrol and AET (S-\$-aminoethyl isothiuronium bromide hydrobromide). This study dealt with cystaphos; or AETP (monosodium salt of aminoethylthiophosphoric acid). Diethylstilbestrol, on one hand, and AET—AETP on the other are examples of two promising classes of radioprotectors for mammals. The phenomenon of decreased effectiveness of mammal protection with lowering of the lethal radiation dose can be considered a general radiobiological principle. A possible cause of this phenomenon could be the toxicity of chemical radioprotectors for nonirradiated animals, and the increased sensitivity of irradiated animals to the toxic effect of these substances. This assumption can be considered proved for AET, since lowering the dose of AET nearly eliminated the decrease in protection usually observed with	L 00040 - 67			
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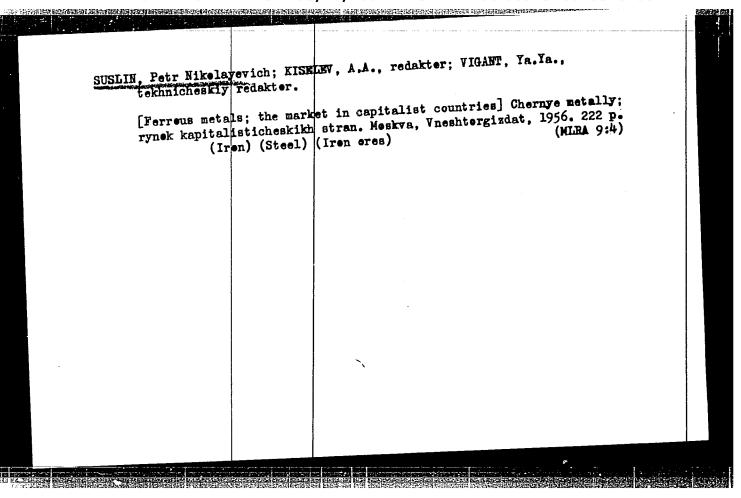
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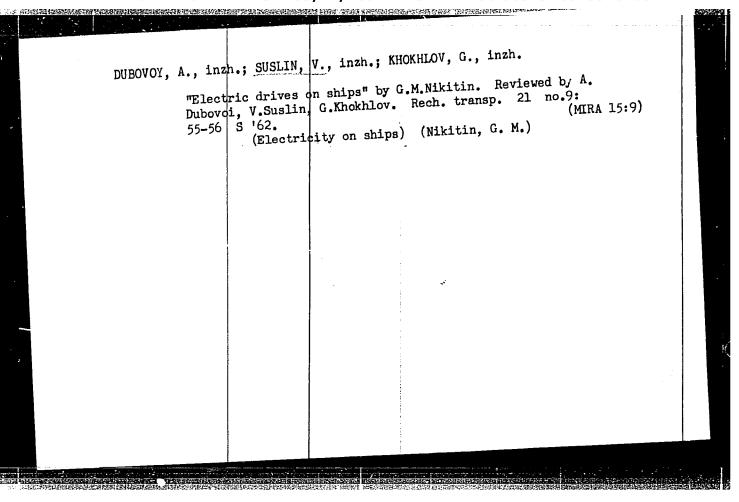
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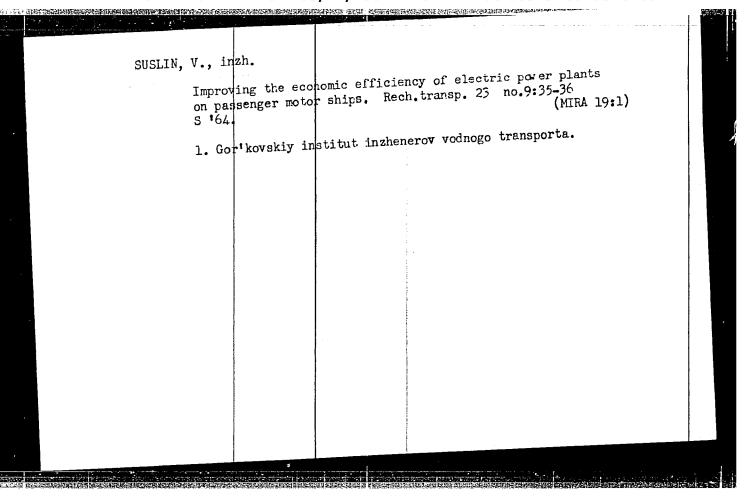
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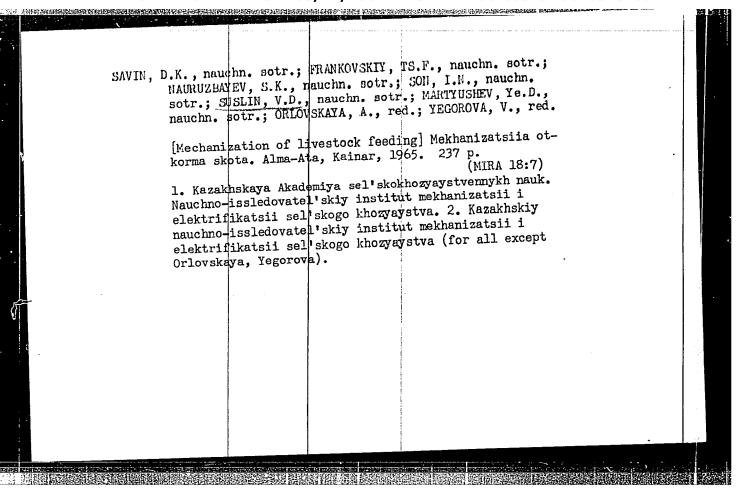
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BELYAKOV, F.Ye.; BABIN, B.N.; BAL', V.; BOROVKOV, P.N.; VOYEVODIN, I.N.; GUREVICH, G.M.; GORBUHOVA, P.I.; KOHNOV, A.S.; KALANTAROVA, M.V.; KASHIRSKIY, A.Ya.; KAZANCHEYEV, Ye.N.; LEKSUTKIN, A.F.; LETI-CHEVSKIY, M.A.; LOPATIN, S.Z.; MIRSKIY, V.N.; PODSEVALOV, V.N.; SUBBOTINA, V.P.; TANASIYCHUK, N.P.; FEDOTOV, S.D.; FISENKO, K.N.; EL'KIND, I.G.; BOVIN, S.S.; VASIL'YEV, L.T.; DRINKOV, V.D.; DALE-CHIN, N.I.; DADAGOV, I.A.; YERMOSHINA, V.I.; ZHUKOV, I.V.; ZIMIN, D.A.; IVANNIKOV, A.Ya.; KOVALEV, M.K.; LUGAKOVSKIY, N.L.; NALEVSKIY, A.F.; SEREZHNIKOV, V.K.; SEMICHASOV, M.D.; SOKOLOV, A.V.; STEPANOV, M.K.; LUGAKOVSKIY, D. A.Y.; STEPANOV, A.Y.; SEMICHASOV, M.D.; SOKOLOV, A.V.; STEPANOV, M.K.; SEMICHASOV, M.K.; SEMICHASOV, M.D.; SOKOLOV, M.V.; STEPANOV, M.K.; SEMICHASOV, M.K.; V.I.; SAKHARIN, G.S.; SAVENKO, P.A.; SOLODOV, V.P.; UMEROV, Sh.Kh.; CHIKINDAS, G.S.; SHCHERBUKHINA, S.N.; DYNKIN, G.Z.; LYSOV, V.S.; OSHEROVICH, A.N.; ROKITSINSKIY, E.V.; BRASLAVSKIY, M.S.; RUDENKO, I.A.; ZHUKOBORSKIY, M.S.; ZHDANOV, I.Ye.; SUSLIN, V.A.; BRUS, A.Ye.; VOLYNSKIY, S.A.; KLYUYEV, V.A.; ISTRATOV, A.G.; TIKHOMIROV, I.F.; BUTYRIN, Ya.N.; VOLYNSKIY, S.A.; MINEYEV, M.F.; MAL'TSEV, V.I.; VIDETSKIY, A.F., kand. tekhn.nauk, glavnyy red.; DEMIDOV, A.N., red.; KRAVETS, A.L., red.; KLIMOVA, Z.I., tekhn.red. Promyshlennaia Astrakhan'. Astrakhan', [Industrial Astrakhan] (MIRA 12:11.) Izd-vo gazety "Volga, | 1959. 318 p. 1. Astrakhan (Province) Ekonomicheskiy administrativnyv rayon. (Astrakhan Province--Economic conditions)

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SOV/92-58-10-21/30

AUTHOR: Suslin, V.I., Foreman

TITLE: A Composite Crew (Kompleksnaya brigada)

PERIODICAL: Neftyanik, 1958, Nr 10, pp 27-28 (USSR)

ABSTRACT: The author states that his crew consists of specialists in oil well maintenance in crude oil production. Moreover, it contains a research group and a small group specialized in extracting oil by secondary recovery methods. In addition to its principal job, this composite crew assembles, disassembles and moves hoisting equipment, wellhead equipment, pumpers, gaging tanks, etc. Among workers of this crew there are men who are able to work as welders, drivers, electricians, etc. The crew extracts oil by applying advanced techniques and takes advantage of the flow scheme introduced by Markar'yants, Chief of a department in the Petroleum and Gas Production Administration. In some deep wells the oil is aerified to stimulate the well flow.

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A Composite Crew

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Hydraulic fracturing of additional perforation, and other recently developed methods are oil well output. However, under conditions oil well output. However, under conditions the Gudermess Administration hydraulic fracturing does not produce satisfactory results, and further studies of its application should be made. Hydrochloric acid treatment of wells is performed rather satisfactorily, but some measures should be taken to prevent the accumulation of salt deposits in the formation because these deposits hinder the free flow of petroleum to the drill-hole. The use of gas packers of the new type brings good results. Following the suggestion of P.K. Khludnev, member of the crew in question, derricks are now assembled at the drilling site thus saving expenditures for their transportation. A number of other practical suggestions were made by several members of the crew, and as a result the 1957 production plan was overfulfilled. It is expected that still better results will be obtained in 1958.

ASSOCIATION: Gudermesskoye NPU (The Gudermes Petroleum Production Administration)

Card 2/2

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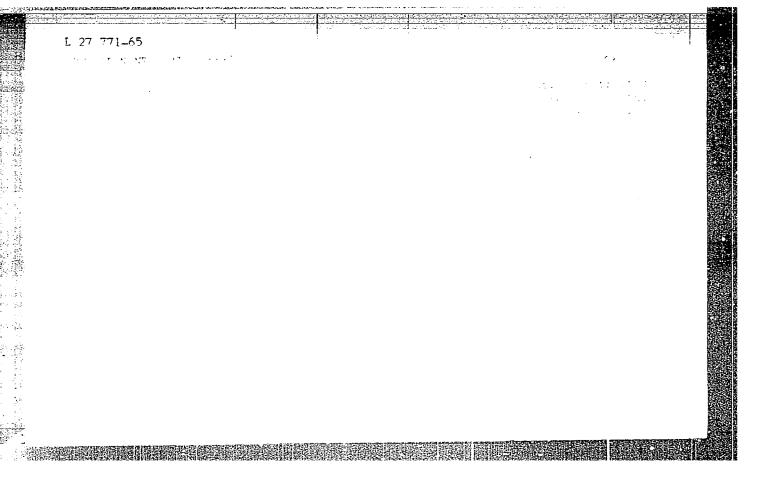
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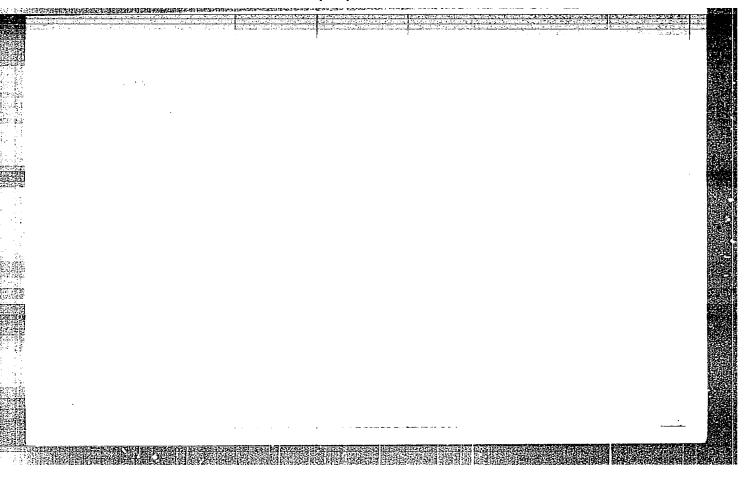
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BWT(1)/EPA/EWP(f)/ENG(v)/生2/EPA(bb)-2 Pe-5/Pw-4 5, 2563/64/000/232/0093/0098 ACCESSION NR: AT5003394 AUTHOR: Strizhak, L. Ya.; Suslina, L. P.; Khentalov, V. I. TIFLE: The operation of the rotor and vaneless diffusor of a high pressure low output centrifugal compressor stage SOURCE: Leningrad. Politekhnicheskiy institut. Trudy, no. 232, 1964. Turbonashiny (Turbomachines), 93-98 TOPIC TAGS: compressor, centrifugal compressor, Mach number, Reynolds number, compressor characteristic, compressor rotor, compressor loss, low output compressor, vaneless diffusor ABSTRACT: During the design of 90° exit angle, high-pressure, compressors, difficulties arise due to the high values of the Mach number (M) (these exceed the difficulties encountered in the conventional rotors with 45" exit angles). High M numbers at the entrance to various elements of the compressor stage may result in increased losses within the rotor and during the conversion of the dynamic thrust within static elements. Low-output centrifugal compressor units have, on the other hand, low Reynolds numbers (Re) caused by the decrease in hydraulic diameter at low relation widths. This enhances the role played by viscosity at low Cara 174

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L 27782-65 ACCESSION NR: AT5003394 9

peripheral velocities. All this made a thorough study of the influence of viscosity and compressibility on the operation of centrifugal stages necessary. The subject of this paper was the tests, representing a continuation of the previously reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz'reported studies necessary.

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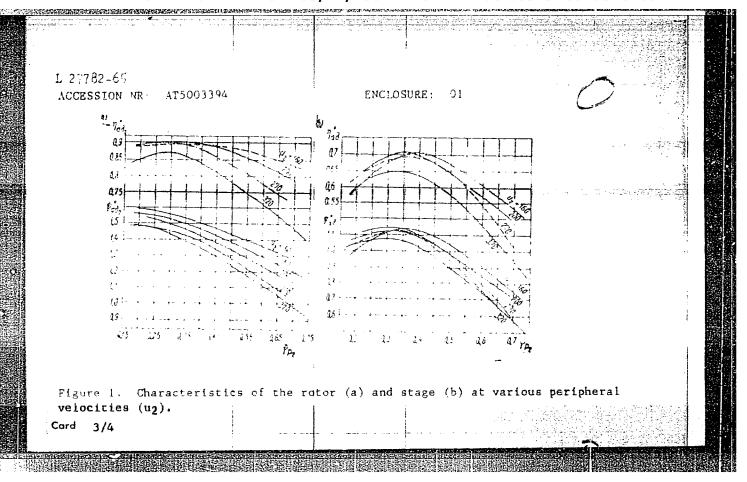
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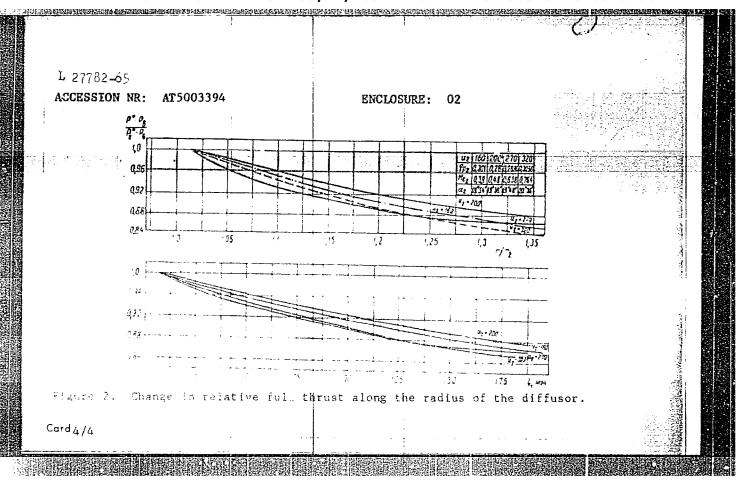
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SOV/51-6-1-24/30 AUTHORS: Gross, En.F. and Suslina, L.G. TITLE: Single Egystell of Zes sai the Spectrum of Their Absorption Edge at Low Temperatures (Monokristally ZhS 1 spektr ikh kraya pogloshcheniya pri nizkikh temperaturakh) PERIODICAL: Optika i Spektroskop ya, 1959, Vol 6, Nr 1, pp 115-117 (USSR) ABSTRACT: In style tystes were produced by ablimation of very pure powder in an atmosphere of argon. This method is similar to that employed for growing of CdS monocrystals in the laboratory of S.M. Ryvkin, at the Physico-Technical Institute of the Academy of Sciences of the U.S.S.R. Sublimation was carried out in a quartz tube (1, in Fig 1) placed in an electric furnace (2, in Fig 1). A quartz boat 3 filled with ZnS was placed in the housest part of the tube 1. This boat was heated to 1270°C. Before the electric furnace was switched on, a stream of argon was passed for 1 hour vis a small tube 4. This was done to expel all air from the system. The electric furnace was switched on for 2 hours. During this time the vapours of ZrS produced from the powder were moved by a stream of argon to a quarts screen 5. ZuR single crystals were found to grow on this screen and on the tube walls near it. The single and siefus were in the form of dolourless plates of 25 x 5 mm area Card 1/3

SOV/51-6-1-24/30 Single Caystals of ZnS and the Spectrum of Their Absorption Edge 26 Low Tomperatures and their thickness varied from 0.1 mm to 0.1 u. The single crystals were found to be uniaxial (hexagonal modification of ZnS) and the optical axis was found to lie in the plane of the crystal. Using crystals of various thicknesses the authors studied the absorption spectra in the region of 3300-3100 Å (Fig 2). Curves a 1, 4, 2 in Fig 2 represent spectra obtained using crystals of 10, 1, 1 and J.l u thickness respectively. The structure of the long-wavelength edge of absorption was found to be clearly exhibited at the liquid-helium temperature (4.20K) as shown in Fig 2. Heating of crystals from 4.2 to 770K and then to 20°C displaces the absorption lines towards longer wavelengths and makes them less distinct. Positions of the absorption lines near the long-wavelength edge are given in various temperatures in a table on p 117. This table lists three absorption maxima at 4.20% and 770% and only two such maxima at 2930K (2000). All these maxima lie between Card 2/3

Single Crystel	3120 and 3220 L.V. Maslova	å. Arknowled or their advi	gments are made	SOV/51-6-1-24/30 a Edge at Low Tempera to O.A. Matveyev and d of growing of singlaces, 6 of which are	tures
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24(7), 24(6)	SOV/51-6-4-29/29
AUTHORS:	Gross, Ye.F., Novikov, B.V., Razbirin, B.S. and Suslina, L.G.
TITLE:	Absorption Spectra of Crystals of Certain Gallium Chalcogenides
	(Spektry poglosncheniya kristallov nekotorykh khalkogenidov galliya)
PERIODICAL:	Optika i Spektroskopiya, 1959, Vol 6, Nr 4, pp 569-572 (USSR)
ABSTRACT:	Linear structure in the long-wavelength edge of fundamental absorption
	was observed in the spectra of some semiconductors (Refs 1-10). These
	lines were ascribed by some authors to exiton states and by others
	to excess of one of the components of the semiconductor or to a foreig
	impurity. The present paper reports an investigation of the absorption
	spectra of gallium sulphide and selenide crystals (GaS and GaSe) with
	hexagonal laminar structure and crystals of 3-Ga2S3 and Ga2Se3. GaS
	crystals were obtained by melting together at 1000-1050°C stoichicmetr
	amounts of gallium and sulphur in evacuated quartz ampules. Crystals
	of 3-Ga2S3 were prepared similarly but at a higher temperature
	(1200-1250°C). Preparation of GaSe and Ga2Se3 (cubic symmetry) was
	described by Goryunova et al (Ref 13). Gas and Gase were used in the
	form of monocrystals of thicknesses varying from several microns to 10
	Ga2S3 and Ga2Se3 were 50-100 μ thick. Structure in the fundamental
	absorption edge was observed in the spectra of GaS and GaSe at 77°K
ard 1/2	(Figs la and 2a respectively). Such structure was also visible in the

SOV/51-6-4-29/29 Absorption Spectra of Crystals of Certain Gallium Chalcogenides absorption spectrum of GaSe at room temperature. In contrast to GaS and GaSe, no structure was observed in the fundamental absorption edges of Ga2S3 and Ga2Se3 either at room temperature or at 77°K (Figs 1d and The absence of structure in the absorption spectra of β-Ga2S3 and Ga2Se3 is probably due to a large number of randomly distributed imperfections in these crystals. Such imperfections impede formation and migration of excitons and consequently the exciton lifetime is very short. Under such conditions the exciton structure of the absorption bands may be very diffuse or it may disappear altogether. absorption spectra the authors deduced the energy gaps in these semiconductors. A table on p 571 lists the values of the energy gaps so deduced at 290°K (col 2) and 77°K (col 3). These values agree satisfactorily with those deduced from photoelectric measurements at room temperature, which are listed in col 3. Acknowledgments are made to N.A. Goryunova for supply of GaSe and Ga2Se3 and for advice on preparation of GaS and Ga2S3 crystals. There are 2 figures, 1 table and 17 references, 10 of which are Soviet, 5 French and 2 German. November 27, 1958 SUBMITTED: USCOMM-DC-60,717 Card 2/2

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and Komarovskikh, K.F.	
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AUTHORS: Gross, Ye.F., Susling, L.G. and Land Spectra of Zinc Sulphide Crystals TITLE: Investigation of the Absorption Spectra of Zinc Sulphide Crystals	
TITLE: Investigation of the Absorption Spectra	
PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 4, pp 516-520 (USSR)	
PERIODICAL: Optika I spouson of the line structure of the	
ABSTRACT: The paper deals with polarization of the line structure of the absorption edge of hexagonal ZnS monocrystals at 4.2 and 77°K and absorption edge of sublimated polycrystalline ZnS films.	
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Q-12 (25 A/mm lines) propertion edge of 2nS monocrystals was lound and a shape of 2nS monocrystal was lound and 2nS monocrystal was lound and 2nS monocrystal was lound and 2nS monocrystal was lound	
polarized (Fig 1). At 4.20k the 3205 A line was completely polarized with its electric vector at right angles to the optical axis of the crystal (E 1 c), i.e. it could be represented by a plane absorption	
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Investigation of the Absorption Spectra of Zinc Sulphide Crystals

oscillator. The 3180 A line was unpolarized or slightly polarized and the 3115 A line was strongly polarized with E | c (the absorption oscillator close to a linear electric dipole). The nature of polarization of the spectrum of ZnS monocrystals is similar to polarization found in other uniaxial crystals with discrete structure of the absorption edge (Refs 4-6). Thin crystals (d~0.1 µ) were found to stick to the base and the consequent deformation produced displacement of the absorption lines (Table 1), as well as broadening (the 3205 A line). The absorption spectra of some "free" crystals were also found to be displaced by 1-2 A due to internal stresses produced during growth of the monocrystals or due to differences in attachment to the bases. The authors investigated also the absorption spectra (Fig 2) of polycrystalline ZnS films produced by sublimation in vacuo. At 4.20K the following absorption lines were observed (the widths are given in brackets): 3212 Å (10 Å), 3190 Å (10 Å), 3128 Å (20 Å); all these are shown in Fig 2a. In some films a weak line at 3271 A (20 Å width) could be seen (Fig 23). The positions of the absorption lines in polycrystalline ZnS films at 4.2 and 77°K are listed in Table 2. Comparison of the data in Tables 1 and 2 shows that the positions and

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Investigation of the Absorption Spectra of Zinc Sulphide Crystals

widths of the absorption lines of polycrystalline films are close to the positions and widths of ZnS monocrystals stuck to substrates.

It follows that the films have hexagonal structure. The 3212, 3190 and 3128 Å lines of the ZnS films and the corresponding lines in the spectra of monocrystals are the lines of the lattice itself (exciton excitation). The 3271 Å line of ZnS films is due to lattice defects (for example excitation of "impurity" are 2 figures, 2 tables and 9 references, 8 of which are Soviet and

SUEMITTED: August 13, 1959

Card 3/3

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24,7400 24,3500 S/048/61/025/004/036/048 B117/B212

AUTHORS: Gross, Ye. F. and Suslina, L. G.

TITLE: Investigation of the absorption and the luminescence of ZnS

and ZnSe single crystals

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25,

no. 4, 1961, 532+533

TEXT: The present paper has been read at the 9th Conference on Luminescence (crystal phosphors). The authors have investigated the absorption, reflection, and luminescence spectra of ZnS and ZnSe single crystals near the long-wave edge of the principal absorption at temperatures of liquid helium. ZnS and ZnSe single crystals have been obtained in form of plates by sublimation of powder in a neutral gas medium. They belong to the hexagonal modification with a sixfold axis in the plate plane. The maximum dimensions of the crystals are: ZnS - $25 \times 5 \times 0.1$ mm and ZnSe - $7 \times 1.5 \times 0.1$ mm. The spectra have been studied at T = 4.2 K in polarized light from photographs of samples of various thicknesses. It has been found that the long-wave edge of the self-absorption of ZnS Card 1/3

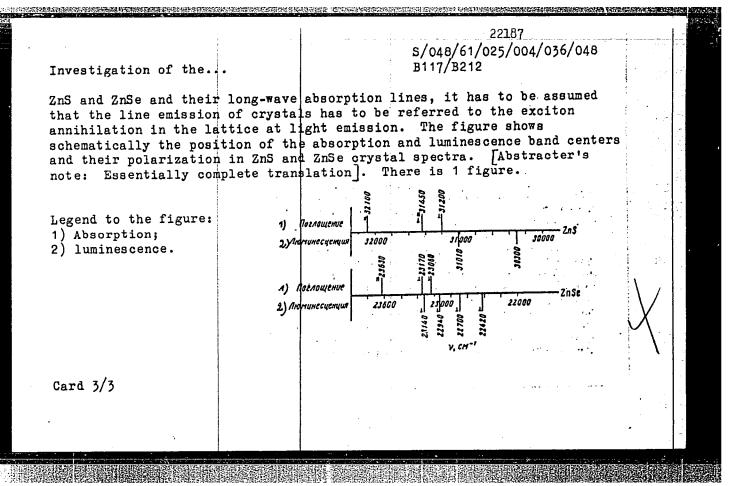
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Investigation of the ...

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and ZnSe single crystals has a complicated structure and shows several small, intensive, polarized absorption lines at T = 4.2 K. A line luminescence has been observed at the absorption edge of both crystals. Between the short-wave emission lines and the long-wave absorption line a resonance has been established. The relative distribution, the polarization, and the width of the lines are very similar in absorption spectra of isomorphous ZnS and ZnSe crystals. Considering the position of the absorption edge, the stability and the high absorption coefficient $(\sim 10^4 \div 10^5 \text{ cm}^{-1})$ it can be assumed that the established absorption caused by the structure is due to the absorption of the basic substance in the lattice, i.e., the formation of excitons. The luminescence spectrum of ZnS has been obtained from fine-crystalline powder at 77.30K. At T = 4.2 K, an intensive line structure has been found in the luminescence spectra of ZnSe single crystals. An equidistant band group which can be found in a number of oxyde and sulfide crystals is found here. The gap between equidistant bands ($\Delta v \sim 260 \text{ cm}^{-1}$) corresponds in magnitude to the lattice vibration energy of ZnS. Taking into account that there is a resonance between the short-wave luminescence lines of



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24.3500 (1137, 1138, 1144)

AUTHORS: Gross, Y

Gross, Ye. F., Suslina, L. G., and Kon'kov, P. A.

TITLE:

Exciton spectrum of hexagonal ZnSe single crystals

PERIODICAL: Fizika tverdogo tela, v. 4, no. 2, 1962, 396-400

TEXT: Exciton absorption and reflection spectra were studied at 4.2°K on Insertion of maximum area of 10 mm² and depths ranging from a few to some tens of microns thick. They were obtained by evaporating Insertion in an argon atmosphere. The measurements were carried out in polarized light with an MM-28 (ISP-28) spectrograph with linear dispersion of 45 Å/mm in the 4350 Å range, and an MCM-51 (ISP-51) with 25 Å/mm dispersion in the same range. The absorption coefficient was 10⁵-10⁶ cm⁻¹. For Elc the absorption edge was 4356 Å, for Elc at 4292Å. The absorption line (A) with maximum at 4335 Å and ~10 Å in width is in the extraordinary ray, and is intensified as the angle between E and concreases. It was studied in detail. With an Ec angle of up to 50-35° a side line (B) appears with 4311 Å, which has the same polarization of 1/4

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tion. The rotating treflection Chang Kuantaken to theoretic Position ZnS 3205 Å 3180 3115	re crystal for E c observed observed The ZnS and with and polarization of Polarization E 1 c E c gies of valence band ared with those of Z c 2954, 1960 are men	zhSe raordinary-ray rved with CdS has a peak at this line (C) e exciton spe results for Z exciton lines ZnSe 4335 A 4311 3237 splitting, E	34232 S/181/62/004/002/015/051 B102/B136 line intensification when CdSe, ZnS and HgI2. The 4242 A, a dip at 4232 A. at 4227 A. This value is ctrum is confronted with nS at 4.2°K: Polarization E C E C E C E C And EAC, were also determined and EAC, were also determined and V. I. Safarove are 3 figures. 2 tables, and are 3 figures. 2 tables, and and Safarove are 3 figures. 2 tables, and Safarove are 3 figures. 2 tables.	

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references to Thomas, J. J. Rev. Lett., 2	English-language Hopfield. Phys. R	publications are 116, 573, Hopfield. J.	he four most recent read as follows: D. (1959; J. L. Birman. Phys. Chem. Sol., 1 36, 1960.	Phys.
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山195 s/181/62/004/012/051/052 B125/B102 21,3500 Gross, Ye. F., and Suslina, L. G. AUTHORS: The emission spectrum of hexagonal ZnSe single crystals TITLE: Fizika tverdogo tela, v. 4, no. 12, 1962, 3677-3680 PERIODICAL: TEXT: The "edge-emission" (emission on the long-wave side of the fundamental absorption edge) from hexagonal monocrystalline plates and from coarse crystalline sinters and powders of ZnSe, is described for the exciton structure of the ZnSe absorption investigated earlier (Ye. F. Gross et al., FTT, 4, 396, 1962). A similar edge emission (i.e. a series of narrow emission lines) from a fair number of oxide and sulfide crystals (ZnS, ZnO, CdS and others) has been observed by F. A. Kroeger (Physica, 7, 4, 1940) and other workers. The emission spectra excited by light in the range of selfabsorption of ZnSe at 77 K and 4.20K have been photographed using a MCΠ-51 (ISP-51) spectrograph with linear dispersion. The excited ZnSe-monocrystals glow light green at low temperatures. All spectral lines of the ZnSe-monocrystals with a Wurtzite-structure are polarized normal to the optical axis at T = 4.2°K.

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Card 1/3

The emission spectrum of ...

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The first and very intensive emission line of such a spectrum with a maximum $\lambda 4326$ A is located among the first very long-wave absorption lines with 4335 and 4311 A. The intensities of the equidistant line series 4361, 4405, 4454, 4501 A decrease with increasing wave length. The position of emission lines of different monocrystalline samples differs by several A as a result of some inner deformations. The equidistant series of various samples mentioned can contain various numbers of lines. Powders and coarse crystalline sinters display the most intensive equidistant luminescence and also the most numerous equidistant lines. At 4.20K there is a green band at 5150 & (causing the luminescence observed) and there is a red band at 6000 Å. If the temperature is raised to 77°K the equidistant series disappears, the strong emission line at 4326 Å is shifted to 4320 Å, and the "red" and "green" bands become more smeared out, showing a red shift. The frequency of 240 cm | observed belongs to the longitudinal oscillations of the ZnSe-lattice. The transverse frequencies of CdS (Wurtzite-structure), ZnSe (sphalerite-structure) and CdSe (Wurtzite-structure) amount to 260. 215-218 and 185 cm The longitudinal frequencies of CdS, ZnSe and CdSe (all having a Wurtzite-structure) amount to 300, 240, and 213 cm . The 215-218 and 185 cm⁻¹ Card 2/3

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S/181/63/005/003/016/046 B102/B180

AUTHORS:

Gross, Ye. F., Suslina, L. G., and Livshits, A. I.

TITLE:

Reflection and luminescence of zinc telluride single crystals

PERIODICAL: Fizika tverdogo tela, v. 5, no. 3, 1963, 801-806

TEXT: This is the third paper in a series of studies of the optical properties of ZnS - ZnTe crystals (Opt. i spektr., 8,516,1960; FTT, 4,396, 1962); it describes investigations made in the visible and ultraviolet ranges at 293, 77 and 4.2°K, including also luminescence at 4.2°K. For the reflection spectra a 160-51 (ISP-51) spectrograph was used for the visible and a Q-2 for the UV ranges. At 77°K a narrow reflection peak was observed at 5236.3±0.3 Å (2.3675 ev) which, at 4.2°K, shifted to 5209.3±0.1Å (2.3798 ev). At room temperature only two broad diffuse maxima were found, one at 3600±50 Å (3.44 ev), the other at 3100±50 Å (4.00 ev). Which at 77°K, these maxima shifted to shorter waves (3330±5 and 2865±3 Å) and narrowed considerably from 2700 to 230 cm⁻¹, and from 2000 to 140 cm⁻¹. The 5236.3Å peak is attributed to Card 1/3

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Reflection and luminescence of line ... B102/B180

direct transitions exciton states connected with extrema, at k=0 ([point), of the lower conduction and the upper valence bands; 3330 and 2865 A to direct transitions to exciton states connected with extrema of the two valence bands and the conduction band, lying at k 14(11) at the edge of the Brillouin zone (L-point). The luminescence spectrum observed differed somewhat from that of D. G. Thomas et al. (Phys. Rev. Lett., 8, 391, 1962; Phys. Rev., Ser. II, 122, 1382, 1961). Luminescence was excited by irradiation in the self-absorption band and was taken on the ISP-51 spectrograph. The three types of ZnTe crystal (I, II, III) investigated have different types of spectra due to different types of luminescence. centers. I has a spectrum similar to CdS; it has a narrow line at 5222 A, a group of lines in the range 5240-5500A and several bands at 7, 5536A. II has a simpler spedtrum consisting of 9 - 10 equidistant triplets. Type III was studied in greatest detail; it consists of narrow lines of different intensity; a faint line at 5222%, a group of equidistant intense lines at 5248%, and other groups at 5316, 5452, 5528, 5619, and 5834 X. Common to all types of crystals are the 5222 A (exciton) line and the presence of line groups whose intensity decreases Card 2/3

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Reflection an	d lumines	cence of z	inc	S/181/63/00 B102/B180	05/003/016/046			
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的。 第一个人,我们是一个人,我们就是一个人,我们们们的一个人,我们们们们们的一个人,我们们们们们们们们们们们们们们的人,我们们们们们们们的人,我们就是一个人的人们们 EWT(1) (EWT(m) (EVT(b) 42/EWP(t)/EWP(b) IJP(c)/RSD/SSD(c)/ASD(a)=5/AS(mp)-2/4FAL/ELEM(a)/ELEM(-)/APOd(b)/RABM(1)/RSD(es)/BSD(t) RDW/JD ACCESSION NR: AP5000670 5/0181/64/006/012/3684/3690 AUTHORS: Gross, Ye. F.; Suslina, L. G. TITLE: Mirror symmetry of absorption and luminescence spectra of ZnTe crystals SOURCE: Fizika tverdogo tela, v. 6, no. 12, 1964, 3684-3690 TOPIC TAGS: absorption spectrum, luminescence spectrum, single crystal, zinc alloy, spectrum analysis ABSTRACT: The authors investigated the narrow-line absorption and luminescence spectrum of the cubic modification of single-crystal ZnTe (sphaler:te). The tests were made at 4.2K. The luminescence and absorption spectra were studied photographically using an ISP-51 spectrograph with a linear dispersion of 18 Å/mm in the 5400 Å region. To investigate the intensity and the temperature dependence of the emission lines, an ISR-51 spectrograph was used in conjunc-1/3 Card